

OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/803,810DATE: 03/30/2001  
TIME: 14:50:30Input Set : A:\Seqlist.txt  
Output Set: N:\CRF3\03302001\I803810.raw#2  
ENTERED

4 <110> APPLICANT: Nelsestuen, Gary L.  
6 <120> TITLE OF INVENTION: MODIFIED VITAMIN K-DEPENDENT  
7 POLYPEPTIDES  
9 <130> FILE REFERENCE: 09531/002001  
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/803,810  
C--> 12 <141> CURRENT FILING DATE: 2001-03-12  
14 <160> NUMBER OF SEQ ID NOS: 18  
16 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
18 <210> SEQ ID NO: 1  
19 <211> LENGTH: 44  
20 <212> TYPE: PRT  
21 <213> ORGANISM: Homo sapiens  
23 <220> FEATURE:  
24 <221> NAME/KEY: MOD\_RES  
25 <222> LOCATION: (0)...(0)  
26 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid  
29 <400> SEQUENCE: 1  
W--> 30 Ala Asn Ser Phe Leu Xaa Xaa Leu Arg His Ser Ser Leu Xaa Arg Xaa  
31 1 5 10 15  
W--> 32 Cys Ile Xaa Xaa Ile Cys Asp Phe Xaa Xaa Ala Lys Xaa Ile Phe Gln  
33 20 25 30  
34 Asn Val Asp Asp Thr Leu Ala Phe Trp Ser Lys His  
35 35 40  
37 <210> SEQ ID NO: 2  
38 <211> LENGTH: 44  
39 <212> TYPE: PRT  
40 <213> ORGANISM: Bos taurus  
42 <220> FEATURE:  
43 <221> NAME/KEY: MOD\_RES  
44 <222> LOCATION: (0)...(0)  
45 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid  
48 <400> SEQUENCE: 2  
W--> 49 Ala Asn Ser Phe Leu Xaa Xaa Leu Arg Pro Gly Asn Val Xaa Arg Xaa  
50 1 5 10 15  
W--> 51 Cys Ser Xaa Xaa Val Cys Xaa Phe Xaa Xaa Ala Arg Xaa Ile Phe Gln  
52 20 25 30  
W--> 53 Asn Thr Xaa Asp Thr Met Ala Phe Trp Ser Phe Tyr  
54 35 40  
56 <210> SEQ ID NO: 3  
57 <211> LENGTH: 44  
58 <212> TYPE: PRT  
59 <213> ORGANISM: Homo sapiens  
61 <220> FEATURE:  
62 <221> NAME/KEY: MOD\_RES  
63 <222> LOCATION: (0)...(0)  
64 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid  
66 <400> SEQUENCE: 3

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W--> 67 Ala Asn Ala Phe Leu Xaa Xaa Leu Arg Pro Gly Ser Leu Xaa Arg Xaa  
68 1 5 10 15  
W--> 69 Cys Lys Xaa Xaa Gln Cys Ser Phe Xaa Xaa Ala Arg Xaa Ile Phe Lys  
70 20 25 30  
W--> 71 Asp Ala Xaa Arg Thr Lys Leu Phe Trp Ile Ser Tyr  
72 35 40  
74 <210> SEQ ID NO: 4  
75 <211> LENGTH: 44  
76 <212> TYPE: PRT  
77 <213> ORGANISM: Bos taurus  
79 <220> FEATURE:  
80 <221> NAME/KEY: MOD\_RES  
81 <222> LOCATION: (0)...(0)  
82 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid  
84 <400> SEQUENCE: 4  
W--> 85 Ala Asn Gly Phe Leu Xaa Xaa Leu Arg Pro Gly Ser Leu Xaa Arg Xaa  
86 1 5 10 15  
W--> 87 Cys Arg Xaa Xaa Leu Cys Ser Phe Xaa Xaa Ala His Xaa Ile Phe Arg  
88 20 25 30  
W--> 89 Asn Xaa Xaa Arg Thr Arg Gln Phe Trp Val Ser Tyr  
90 35 40  
92 <210> SEQ ID NO: 5  
93 <211> LENGTH: 45  
94 <212> TYPE: PRT  
95 <213> ORGANISM: Homo sapiens  
97 <220> FEATURE:  
98 <221> NAME/KEY: MOD\_RES  
99 <222> LOCATION: (0)...(0)  
100 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid  
102 <400> SEQUENCE: 5  
W--> 103 Tyr Asn Ser Gly Lys Leu Xaa Xaa Phe Val Gln Gly Asn Leu Xaa Arg  
104 1 5 10 15  
W--> 105 Xaa Cys Met Xaa Xaa Lys Cys Ser Phe Xaa Xaa Ala Arg Xaa Val Phe  
106 20 25 30  
W--> 107 Xaa Asn Thr Xaa Arg Thr Thr Xaa Phe Trp Lys Gln Tyr  
108 35 40 45  
110 <210> SEQ ID NO: 6  
111 <211> LENGTH: 46  
112 <212> TYPE: PRT  
113 <213> ORGANISM: Bos taurus  
115 <220> FEATURE:  
116 <221> NAME/KEY: MOD\_RES  
117 <222> LOCATION: (0)...(0)  
118 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid  
120 <400> SEQUENCE: 6  
W--> 121 Tyr Asn Ser Gly Lys Leu Xaa Xaa Phe Val Gln Gly Asn Leu Xaa Arg  
122 1 5 10 15  
W--> 123 Xaa Cys Met Xaa Xaa Lys Cys Ser Phe Xaa Xaa Ala Arg Xaa Val Phe  
124 20 25 30

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Input Set : A:\Seqlist.txt  
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W--> 125 Xaa Asn Thr Xaa Lys Arg Thr Thr Xaa Phe Trp Lys Gln Tyr  
126 35 40 45  
128 <210> SEQ ID NO: 7  
129 <211> LENGTH: 36  
130 <212> TYPE: DNA  
131 <213> ORGANISM: Artificial Sequence  
133 <220> FEATURE:  
134 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide  
136 <400> SEQUENCE: 7  
137 aaattaatac gactcaatat agggagaccc aagctt 36  
139 <210> SEQ ID NO: 8  
140 <211> LENGTH: 42  
141 <212> TYPE: DNA  
142 <213> ORGANISM: Artificial Sequence  
144 <220> FEATURE:  
145 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide  
147 <400> SEQUENCE: 8  
148 gcactccgc tccaggctgc tgggacggag ctcctccagg aa 42  
150 <210> SEQ ID NO: 9  
151 <211> LENGTH: 36  
152 <212> TYPE: DNA  
153 <213> ORGANISM: Artificial Sequence  
155 <220> FEATURE:  
156 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide  
158 <400> SEQUENCE: 9  
159 acgctccacg ttgcctgtgc gcagctcctc taggaa 36  
161 <210> SEQ ID NO: 10  
162 <211> LENGTH: 36  
163 <212> TYPE: DNA  
164 <213> ORGANISM: Artificial Sequence  
166 <220> FEATURE:  
167 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide  
169 <400> SEQUENCE: 10  
170 ttccttagagg agctgcggca cggcaacgtg gagcgt 36  
172 <210> SEQ ID NO: 11  
173 <211> LENGTH: 36  
174 <212> TYPE: DNA  
175 <213> ORGANISM: Artificial Sequence  
177 <220> FEATURE:  
178 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide  
180 <400> SEQUENCE: 11  
181 gcatttaggt gacactatag aatagggccc tctaga 36  
183 <210> SEQ ID NO: 12  
184 <211> LENGTH: 42  
185 <212> TYPE: DNA  
186 <213> ORGANISM: Artificial Sequence  
188 <220> FEATURE:  
189 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide  
191 <400> SEQUENCE: 12

## RAW SEQUENCE LISTING

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Input Set : A:\Seqlist.txt

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192 gaaggccatt gtgtcttccg tgtcttcgaa aatctcccga gc 42  
 194 <210> SEQ ID NO: 13  
 195 <211> LENGTH: 36  
 196 <212> TYPE: DNA  
 197 <213> ORGANISM: Artificial Sequence  
 199 <220> FEATURE:  
 200 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide  
 202 <400> SEQUENCE: 13  
 203 cagtgtgtca tccacatctt cgaaaatttc cttggc 36  
 205 <210> SEQ ID NO: 14  
 206 <211> LENGTH: 36  
 207 <212> TYPE: DNA  
 208 <213> ORGANISM: Artificial Sequence  
 210 <220> FEATURE:  
 211 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide  
 213 <400> SEQUENCE: 14  
 214 gccaaggaaa ttttgcaga tgtggatgac acactg 36  
 216 <210> SEQ ID NO: 15  
 217 <211> LENGTH: 36  
 218 <212> TYPE: DNA  
 219 <213> ORGANISM: Artificial Sequence  
 221 <220> FEATURE:  
 222 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide  
 224 <400> SEQUENCE: 15  
 225 cagtgtgtca tccacatttt cgaaaatttc cttggc 36  
 227 <210> SEQ ID NO: 16  
 228 <211> LENGTH: 36  
 229 <212> TYPE: DNA  
 230 <213> ORGANISM: Artificial Sequence  
 232 <220> FEATURE:  
 233 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide  
 235 <400> SEQUENCE: 16  
 236 gccaaggaaa ttttgcaaaaa tgtggatgac acactg 36  
 238 <210> SEQ ID NO: 17  
 239 <211> LENGTH: 45  
 240 <212> TYPE: PRT  
 241 <213> ORGANISM: Bos taurus  
 243 <220> FEATURE:  
 244 <221> NAME/KEY: MOD\_RES  
 245 <222> LOCATION: (0)...(0)  
 246 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid  
 248 <400> SEQUENCE: 17  
 W--> 249 Ala Asn Lys Gly Phe Leu Xaa Xaa Val Arg Lys Gly Asn Leu Xaa Arg  
 250 1 5 10 15  
 W--> 251 Xaa Cys Leu Xaa Xaa Pro Cys Ser Arg Xaa Xaa Ala Phe Xaa Ala Leu  
 252 20 25 30  
 W--> 253 Xaa Ser Leu Ser Ala Thr Asp Ala Phe Trp Ala Lys Tyr  
 254 35 40 45  
 256 <210> SEQ ID NO: 18

## RAW SEQUENCE LISTING

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Input Set : A:\Seqlist.txt

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257 <211> LENGTH: 44  
258 <212> TYPE: PRT  
259 <213> ORGANISM: Bos taurus  
261 <220> FEATURE:  
262 <221> NAME/KEY: MOD\_RES  
263 <222> LOCATION: (0)...(0)  
264 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid  
266 <400> SEQUENCE: 18

W--> 267 Ala Asn Ser Phe Leu Xaa Xaa Val Lys Gln Gly Asn Leu Xaa Arg Xaa  
268 1 5 10 15  
W--> 269 Cys Leu Xaa Xaa Ala Cys Ser Leu Xaa Xaa Ala Arg Xaa Val Phe Xaa  
270 20 25 30  
W--> 271 Asp Ala Xaa Gln Thr Asp Xaa Phe Trp Ser Lys Tyr  
272 35 40

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/803,810

DATE: 03/30/2001  
TIME: 14:50:31

Input Set : A:\Seqlist.txt  
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L:11 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:30 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:32 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:67 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:69 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:71 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:87 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:251 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18